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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,459	01/26/2007	Clement Hiel	50486-00003	9980
84233 March Fischma	7590 09/09/201 ann & Breyfogle LLP	1	EXAM	IINER
8055 E. Tufts Avenue, Suite 450			GRAY, JILL M	
Denver, CO 80	1237		ART UNIT	PAPER NUMBER
			1798	
			NOTIFICATION DATE	DELIVERY MODE
			09/09/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOMail@mfblaw.com

Office Action Summary

Application No.	Applicant(s)
10/595,459	HIEL ET AL.
Examiner	Art Unit
JILL GRAY	1798

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

Status	
1)🛛	Responsive to communication(s) filed on 24 June 2010 and 28 April 2011.
2a) 🛛	This action is FINAL . 2b) ☐ This action is non-final.
3)	An election was made by the applicant in response to a restriction requirement set forth during the interview on
	the restriction requirement and election have been incorporated into this action.

4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

1:

5) 🔀 Cla	aim(s) 16,20,26 and 29-35 is/are pending in the application.
5a)	Of the above claim(s) is/are withdrawn from consideration.
6)□ Cla	aim(s) is/are allowed.
7) 🛛 Cla	aim(s) <u>16,20,26 and 29-35</u> is/are rejected.
8)□ Cla	aim(s) is/are objected to.
9)☐ Cla	aim(s) are subject to restriction and/or election requirement.
Application	Papers
10) 🔲 The	e specification is objected to by the Examiner.

D)(C	The specification is objected to by the Examiner.
1)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(cr
2)	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13	13)∐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
	a) 🗌 All	b) ☐ Some * c) ☐ None of:	
	1.	Certified copies of the priority documents have been received.	
	2.	Certified copies of the priority documents have been received in Application No	
	3.□	Copies of the certified copies of the priority documents have been received in this National Stage	
		application from the International Bureau (PCT Rule 17.2(a)).	

* See the attached detailed Office action for a list of the certified copies not received.

-/-	140000 or Brance
3)	Information Dis

Attachment(s)

4) Interview Summary (PTO-413) Paper Not/Mail Date. 5) Interior of Informat Patent Application 6) Other:

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DETAILED ACTION

Inventorship

 In view of the papers filed June 24, 2010, the inventorship in this nonprovisional application has been changed by the deletion of David Bryant.

The application will be forwarded to the Office of Initial Patent Examination (OIPE) for issuance of a corrected filing receipt, and correction of Office records to reflect the inventorship as corrected.

Response to Amendment

 The proposed amendments to the specification of June 24, 2011 and April 28, 2011 will not be entered due to the dismissal of the June 24, 2010 and April 28, 2011 petitions to change the domestic priority claim.

Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 16, 20, 26, and 29-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over PCT Publication WO 2003/091008 A1 (the publication).

The publication teaches an aluminum conductor composite core reinforced cable comprising a composite core comprising a matrix material and a plurality of longitudinally extending fibers of one or more fiber type embedded in the matrix and at least one layer of aluminum conductor surrounding the core, as required by present claim 30. The publication teaches that thermosetting resins such as epoxy can be used as the matrix material further teaching that said resin contains at least one hardener and

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one or more accelerators. See page 20, lines 14-25 and pages 46-47. Also, the publication teaches on page 46, an epoxy matrix system that is used as his epoxy resin. Said epoxy matrix system comprising ARALDITE MY 721/Hardener 99-023/Accelerator DY 070.

The publication does not specifically teach that the formulation has elongation properties in excess of glass fiber elongation properties.

The epoxy matrix system of the publication appears to be the same resin system disclosed by applicants as having elongation properties that exceed that of glass fibers and is suitable in the instant composite core. It has been established that products of identical chemical composition cannot have mutually exclusive properties. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicants discloses and/or claims are necessarily present. In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Note MPEP 2112.01. Accordingly, the examiner has reason to believe that the epoxy matrix system of the prior art has elongation properties in excess of glass fiber elongation properties, in the absence of clear, factual evidence to the contrary. Where the claimed and prior art product are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best. 562. F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "Where the PTO shows a sound basis for believing that the products of the applicants and the prior art are the same, the Application/Control Number: 10/595,459

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applicant has the burden of showing that they are not." *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

Regarding claim 16, the requirement that the fiber/resin matrix is cured at a curing temperature of from about 350°F to about 500°F to form the composite core is drawn to the method of making the composite core. This constitutes a process limitation within a product claim, wherein patentability is based upon the product itself.

Regarding claim 20, the publication teaches that the composite core can have an inner carbon/epoxy layer and an outer glass/epoxy layer. See, for example claims 64-65.

Regarding claim 26, the teachings of the publication of a carbon/epoxy inner layer and glass/epoxy outer layer (note claims 64 and 65) would render obvious the requirement of a protective coating surrounding the core.

Regarding claim 29, as set forth above, the publication teaches a matrix resin system that is the same as or substantially similar to that contemplated by applicants. Accordingly, for the reasons stated above and incorporated herein, the examiner has reason to believe that properties such as the elongation are the same or substantially to those required by applicants, in the absence of factual evidence to the contrary. Applicants are invited to provide such evidence.

As to claims 32-34, the publication teaches that the fibers can be glass fibers or carbon fibers as required by applicants. See for example, claims 64-65.

As to claim 35, the publication teaches that said composite core comprises one fiber type can have a modulus of elasticity in the range of about 6 to about 7 Msi. See Application/Control Number: 10/595,459

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page 13, lined 9-20. It should be noted that the publication teaches a modulus of elasticity for the composite core that ranges from about 22 Msi to about 37 Msi.

Regarding claim 31, the aluminum conductor surrounding the core is helically wound, as set forth by applicants. See entire document, and for example abstract and page 10, lines 7-18.

Therefore, the teachings of the publication would have rendered obvious the invention as claimed in present claims 16, 20, 26, and 29-35.

Response to Arguments

Applicant's arguments filed June 24, 2010 and April 28, 2011 have been fully considered but they are not persuasive.

Applicants' arguments are based upon the proposed correction of the Domestic Priority Claim. This proposed correction has been denied by the Office. Accordingly, the prior art rejection stands.

No claims are allowed

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JILL GRAY whose telephone number is (571)272-1524. The examiner can normally be reached on M-Th and alternate Fridays 10:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Ortiz can be reached on 571-272-1206. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jill Gray/ Primary Examiner Art Unit 1798